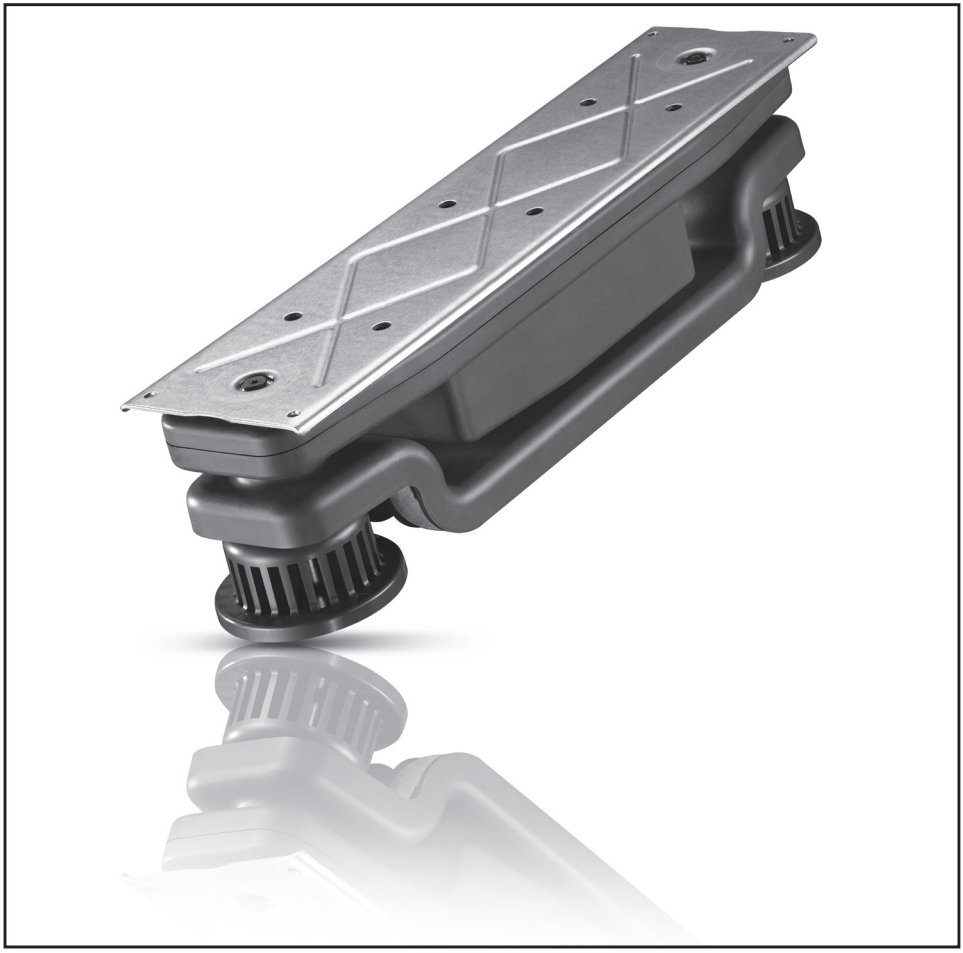
DESKLINE®
IMPROVING ERGONOMICS

Baselift



To learn more about LINAK, please visit:
WWW.LINAK.COM

LINAK®
WE IMPROVE YOUR LIFE

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Preface

We are delighted that you have chosen a product from LINAK A/S. LINAK systems are high-tech products based on many years of experience in the manufacture and development of actuators, electric control boxes, controls, and chargers.

We are also constantly improving our products to meet customer requirements.

This User Manual will tell you how to install, use and maintain your LINAK DESKLINE® products.

We are sure that the DESKLINE® products will give you many years of problem-free operation. Before our products leave the factory they undergo full function and quality testing. Should you nevertheless experience problems with your systems, you are always welcome to contact our service departments or service centres.

LINAK subsidiaries and distributors all over the world have authorised service centres, which are always ready to help you.

LINAK provides a warranty on all its products. This warranty, however, is subject to correct use in accordance with the specifications, maintenance being done correctly and any repairs being carried out at a service centre, which is authorised to repair LINAK products.

Changes in installation and use of LINAK systems can affect their operation and durability. Changes must therefore only be made by agreement with LINAK A/S and are made at your own risk.

LINAK A/S

Valid for:

This User Manual is valid for the following products:

(See the first 3 - 5 characters on the label)

Accessories:	Baselift
Control boxes:	CBD6S 200W or CBD6S 300W
Controls:	RFRL, RFT for wireless systems DP1U/DPF1M (if memory function is required), DP1C//DPT/DPF1C (if memory function and display are required) or DPA/DPB/DP1K/DP1V/DPFK (if only up/down is required).

Important information

Important information on LINAK® products can be found under the following headings:

Warning!
Failure to comply with these instructions may result in accidents involving serious personal injury.

Failing to follow these instructions can result in the product being damaged or being destroyed.

Safety instructions

General

Safe use of the system is possible only when the operating instructions are read completely and the instructions contained are strictly observed.

Failure to comply with instructions marked with the "NOTE" symbol may result in serious damage to the system or one of its components.

It is important for everyone who is to connect, install or use the systems to have the necessary information and access to this User Manual. Follow the instructions for mounting – risk of injury if these instructions are not followed.

The appliance is not intended for use by young children or infirm persons without supervision.

If there is visible damage on the product it must not be installed.

Please note that during construction of applications, in which the actuator is to be fitted, there must be no possibility of personal injury, for example squeezing of fingers or arms.

Assure free space for movement of applications in both directions to avoid blockade.

Before installation, reinstallation or troubleshooting

- Stop the actuator
- Switch off the power supply and pull out the mains plug.
- Relieve the actuator of any loads, which may be released during the work.

Before start-up:

- Make sure that the system has been installed as instructed in this User Manual.
- Make sure that the voltage in the control box is correct before the system is connected to the mains.
- System connection. The individual parts must be connected before the control box is connected to the mains. See the User Manual for LINAK actuators, if necessary.

During operation:

- If the control box makes unusual noises or smells, switch off the mains voltage immediately.
- Take care that the cables are not damaged.
- Unplug the mains cable on mobile equipment before it is moved.

Misc.

The actuator system has a sound level below 55dB(A) in typical applications.

Updated manuals and declarations can always be found here: *www.linak.com/deskline*

Only for EU markets

This appliance can be used by children aged from 8 years and older and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they are under supervision or have been instructed in the use of the appliance in a safe way and understand the hazards involved.

Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

Only for Non EU markets

Persons who do not have the necessary experience or knowledge of the product/products must not use the product/products. Besides, persons with reduced physical, sensory or mental abilities must not use the product/products, unless they are under surveillance or they have been thoroughly instructed in the use of the apparatus by a person who is responsible for the safety of these persons.

Moreover, children must be under surveillance to ensure that they do not play with the product.

It is the operator's responsibility to ensure that there is free space for the application to move without risk for the operator or bystanders before operating the application.

Misuse

Do not overload the actuators – this can cause danger of personal injury and damage to the system.

Do not use the actuator system for lifting persons. Do not sit or stand on a table while operating – risk of personal injury.

Do not use the system in environments other than the intended indoor use

Repairs

In order to avoid the risk of malfunction, all DESKLINE® repairs must only be carried out by authorised LINAK workshops or repairers, as special tools must be used and special gaskets must be fitted. Lifting units under warranty must also be returned to authorised LINAK workshops.

Warning!
If any of the DESKLINE® products are opened, there will be a risk of subsequent malfunction.

Warning!
The DESKLINE® systems do not withstand cutting oil.

DECLARATION OF INCORPORATION OF PARTLY COMPLETED MACHINERY

LINAK A/S
Smedevænget 8
DK - 6430 Nordborg

Herewith declares that LINAK DESKLINE® products as characterized by the following models and types:

Control Boxes	CBD4, CBD5, CBD6, CBD6S
And	
Linear Actuators	LA31, DB4, DB5, DB6, DB7, DB9, DB12, DB14, DB16, LA23
Lifting Columns	DL1A, DL2, DL4, DL5, DL6, DL7, DL8, DL9, DL10, DL11, DL12, DL14, DL15, DL16, DL17, LP2, LP3, BASE1
And	
Desk Panels	DP, DPA, DPB, DPH, DPF, DPT, DP1C, DP1K, DP1L, DP1V, DP1U, WDPL1
RF Controls	HB10, HB20, RFR and RFT
And	
Accessories	SLS

comply with the following parts of the Machinery Directive 2006/42/EC, ANNEX I, *Essential health and safety requirements relating to the design and construction of machinery*:

1.5.1 Electricity supply

The relevant technical documentation is compiled in accordance with part B of Annex VII and that this documentation or part hereof will be transmitted by post or electronically to a reasoned request by the national authorities.

This partly completed machinery must not be put into service until the final machinery into which it is to be incorporated has been declared in conformity with the provisions of the Machinery Directive 2006/42/EC where appropriate.

Nordborg, 2014-04-10

LINAK A/S
John Kling, B.Sc.E.E.
Certification and Regulatory Affairs
Authorized to compile the relevant technical documentation

Misc. on the DESKLINE® system

Warranty
There is a 36 months' warranty on DESKLINE products against manufacturing faults from the production date of the individual products (see label).
LINAK A/S warranty is only valid in so far as the equipment has been used and maintained correctly and has not been tampered with. Furthermore, the system must not be exposed to violent treatment. In the event of this, the warranty will be ineffective/invalid. For further details, please see standard terms of sale and delivery for LINAK A/S.

Service of double insulated products:

Class II

A Class II or **double insulated** electric appliance is one which has been designed in such a way that it does not require a safety connection to electrical earth (US: ground).
The basic requirement is that no single failure can result in dangerous voltage becoming exposed so that it might cause an electric shock and that this is achieved without relying on an earthed metal casing. This is usually achieved at least in part by having two layers of insulating material surrounding live parts or by using reinforced insulation.
There is no earthing/grounding means provided on the product, and no earthing/grounding means is to be added to the product.
In Europe, a double insulated appliance must be labelled "Class II", "double insulated" or bear the double insulation symbol (a square inside another square).
Servicing a double insulated product requires extreme care and knowledge of the system, and is to be done only by qualified service personnel. Replacement parts for a double insulated product must be identical to the parts they replace.

The cleaners and disinfectants must not be highly alkaline or acidic (pH value 6-8).

ETL-marking

Due to space limitations, the complete ETL-marking demands are not represented on the marking plates.

The full ETL Recognized Component markings are shown here.

C/N 120690

Conforms to UL962
Cert. to CSA Std. C22.2 No. 68-09
ETL Recognized Component mark for Canada and United States

Product produced at
LINAK A/S

C/N 9901916

Conforms to UL962
Cert. to CSA Std. C22.2 No. 68-09
ETL Recognized Component mark for Canada and United States

Product produced at
LINAK US Inc

C/N 4008003

Conforms to UL962
Cert. to CSA Std. C22.2 No. 68-09
ETL Recognized Component mark for Canada and United States

Product produced at
LINAK (Shenzhen) Actuator Systems Ltd

C/N 4008004

Conforms to UL962
Cert. to CSA Std. C22.2 No. 68-09
ETL Recognized Component mark for Canada and United States

Product produced at
LINAK Slovakia s.r.o.

C/N 4008005

Conforms to UL962
Cert. to CSA Std. C22.2 No. 68-09
ETL Recognized Component mark for Canada and United States

Product produced at
Flextronics Electronics Co Ltd

C/N 4008671

Conforms to UL962
Cert. to CSA Std. C22.2 No. 68-09
ETL Recognized Component mark for Canada and United States

Product produced at
Wirear International Group Ltd

C/N 4009507

Conforms to UL962
Cert. to CSA Std. C22.2 No. 68-09
ETL Recognized Component mark for Canada and United States

Product produced at
SVI Public Company Limited

Description of the DESKLINE® Baselift system

A Baselift system consists of:
- Baselift units
- CBD6S
- Desk Panel (typically DPH or DPT). To avoid cabling between the Desk Panel and the CBD, a wireless system based on RFRL and RFT can be chosen. This is only an option for matrix panels.

Baselift:
The number of Baselifts used in an application depends on the size of the application. The Baselift is not designed to be a standalone product and it is not designed to absorb bending moment from the application. As a rule of thumb, there must be a distance of maximum 0.6m between the Baselifts. This is to get enough stability in all directions.

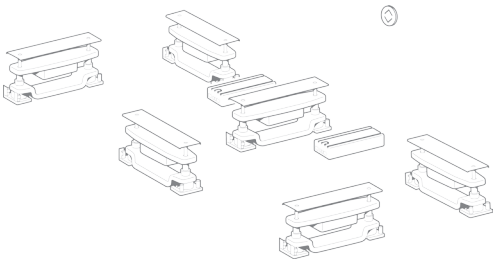
CBD6S:
The number of CBD6S control boxes used in an application depends on the number of Baselifts used. The CBD6S 300W can be connected with maximum 4 units, the CBD6S 200W with maximum 2 units. If more Baselifts are needed, the system must be a multi-parallel system. A maximum of 16 Baselifts can be connected with 4 x CBD6S 300W. Use a serial cable for connection between the control boxes.

Desk Panels
All DESKLINE Desk Panels can be used, but the ones preferred are the DPH and the DPT as these desk panels can be integrated in the tabletop. As an option, you can choose to have a wireless system between the DPH and the CBD to avoid cables behind the drawers in the kitchen. To get a wireless system you add RFT and the RFRL box to the system. Remember the RFT can only be used with matrix desk panels (DPA, DPB, DPH, DPF1K, DP1K).

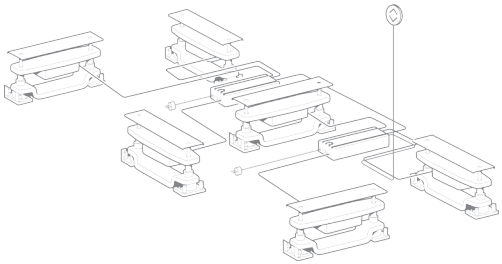
Service tool (Special Desk Panel) (Article number DPF1C00-0011)
The standard system setup for a CBD6S-Baselift system is to use a special desk panel when initialising. If this special desk panel is not used, it is not possible to start up the system. The special desk panel is an extra safety against material damage. The desk panel ensures that when the system is being initialised with a certain number of Baselift units the system can only work with this number of units. This means that if a Baselift cable for some reason has been disconnected or damaged, the system will not run and thereby ensure that e.g. the kitchen is not being destroyed.

Mounting guidelines for the Baselift system (example):

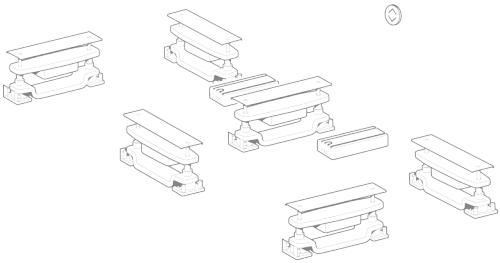
A typical kitchen island of approx. 2m length and 1m depth requires 6 Baselifts. The number of units is not only due to lifting capacity, but also to gain enough stability in the application. The units must be placed/ positioned as shown below for maximum stability.



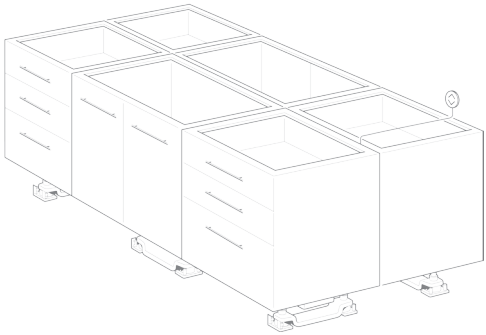
Place the Baselifts on the floor



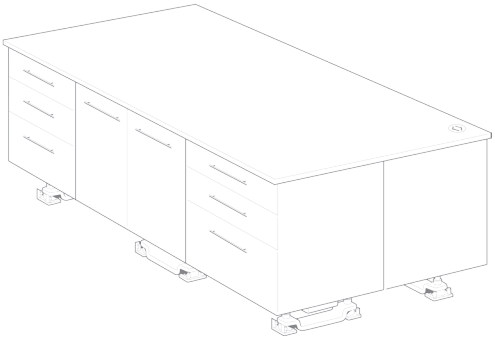
Mount all the cables



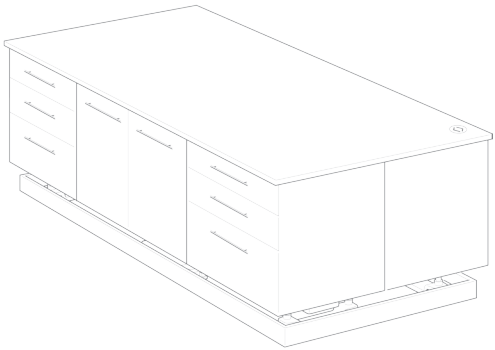
Place the plate on top of the Baselifts



Mount the cupboards on the plate



Mount the kitchen plate and connect the Desk Panel



Before use. Mount the 2 parts for the base cover.

Mounting procedure

The important thing to consider when mounting the Baselift system is that the Baselift units are even in height so they all carry the load of the kitchen. This can be done in several ways, below guidelines/procedure is one suggestion.

1. **Before mounting:**
   a. Please read the LINAK Baselift User Manual carefully before mounting the system.
   b. Make sure the floor is clean before you start mounting.
   c. For optimal stability of your electric height adjustable kitchen, it is very important that you place the Baselifts correctly.

2. **Mark the floor**
   a. First, you have to measure and mark where to place the kitchen and the 6 Baselifts.
   b. Precise measurements are very important.

3. **Connect the system**
   a. Place the Baselifts on the floor.
   b. Place the two CBD6S control boxes with the cable grooves facing upwards.
   c. Place the control boxes close to the front of the kitchen for easy access in case of service.
   d. Plug in the motor cables in the control boxes. It is important that you start using channel no. 1, then channel no. 2 and so forth.
   e. Next, you connect the two control boxes with a serial cable for parallel drive.
   f. Then plug in the LINAK service tool in one of the control boxes.
   g. Finally, you connect to mains.
   h. We recommend you use the cable relief for less strain on the mains cable.

4. **Initialise the system before mounting the Baselifts**
   a. Initialise the Baselift system.
   b. You do this by pressing the down key on the service tool once. Within 10 seconds press the down key again and now hold the down key until the Baselifts stop completely.
   c. The system has now been initialised.
   d. The service tool can now be removed and the chosen desk panel can be connected.

5. **If you use a wireless control (RFRL + RFT) (Otherwise go to the next point)**
   a. Connect the RFR receiver to one of the control boxes.
   b. Plug in the cable from the Desk Panel in the RFT transmitter.
   c. Activate the reset key on the RF Receiver.
   d. Keep the reset key activated while pressing a random button on the Desk Panel

6. **Mount the Baselift units**
   a. The mounting has 2 purposes:
      i. The kitchen cannot tilt
      ii. Vibrations or similar cannot move the Baselifts and cause twisting of the kitchen.
   b. Drive the Baselifts to their full stroke to get easy access.
   c. Make sure all Baselifts are even in height. If adjustment is needed, adjust the Baselifts manually, by turning the adjustment foot (max. 15 mm).
   d. Mount the Baselifts to the floor via the use of the mounting brackets.
      i. On a wooden floor, you can mount the Baselifts by attaching the brackets to the floor with screws.
      ii. If you have floor heating or for other reasons want to avoid drilling holes in the floor, you can use suitable glue rather than screws when mounting the Baselifts. If there is floor heating in the floor, one must observe this when mounting to avoid damages.
   e. Place the plate on top of the Baselifts. Make sure that no cables are stuck between the Baselifts and the plate and ensure that the plate is placed in the centre. The thickness of the plate is typically between 16 - 30 mm thick depending on material.
   f. Mount the Baselifts with screws.
   g. For easy access, mount the control boxes and the RF Transmitter close to the front edge.

h. Fix cables by using self-adhesive cable ties.
i. Please drive the Baselifts to their lowest position.

7. Mount the kitchen cabinets and the Desk Panel in the kitchen tabletop

a. Mount the kitchen cabinets.
b. Mount the Desk Panel in the hole in the tabletop.
c. (If wireless) Plug the cable from the Desk Panel into the RF Transmitter.
Remember to place the RFT in an accessible place as it contains batteries which can be replaced.
d. Mount the tabletop.
e. Test to see if the kitchen functions.

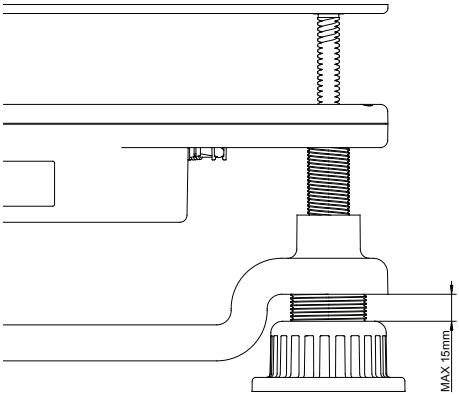
8. Mount the base cover

a. The base cover must be mounted prior to use to avoid any collision situations or squeezing.
b. Pin the clips on the brackets.
c. Remove the protective film from the clips and mount the bottom base.
For better fixing, you can choose to mount the clips with screws.
d. It is important to keep a bit of space between the top base and the bottom base to avoid scratches when the kitchen is driven up and down. The space can be created by adding felt pads on the back of the top base.
e. To calculate where to fix the top base you need to take two measurements. First, you measure from the edge to the top base. Then add half the width of the base.

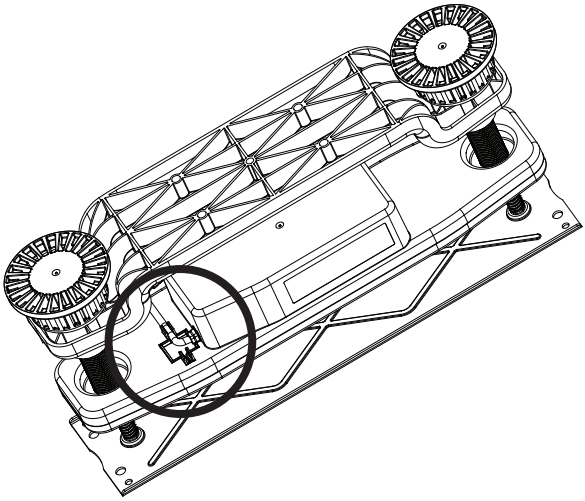
9. Test the function of the kitchen (full stroke in and out) to ensure everything works correctly

You can find the mounting instruction video via *this link*

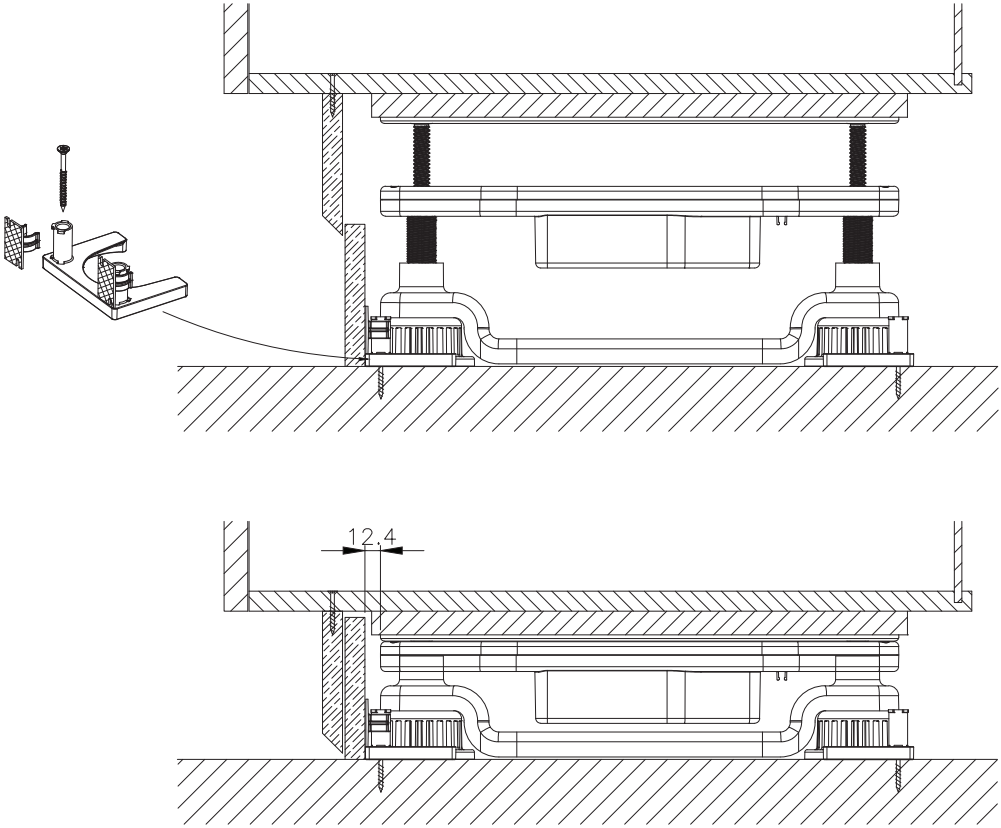
Below please find mounting illustrations to observe



Adjustment: Maximum adjustment of the foot is 15 mm



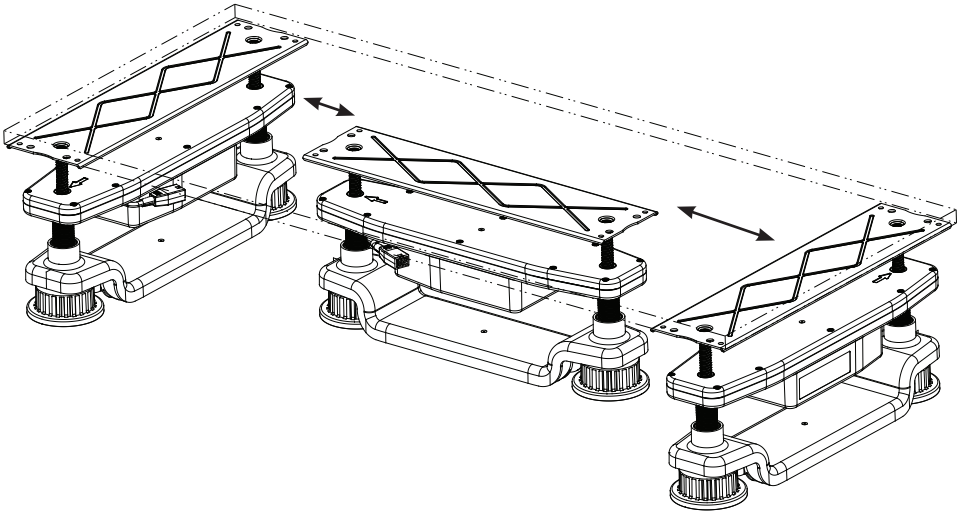
The Baselift cable must be fixed in the strain relief in the Baselift housing



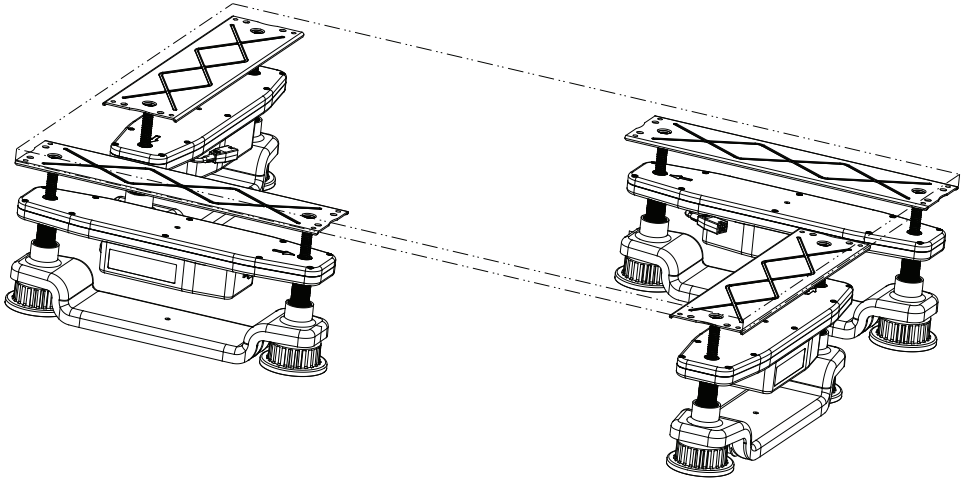
Mount the mounting bracket on the Baselift. The clips can be mounted on the bracket and help fixing the base cover. Observe the min. distance !!

Examples of how to mount:
Below sketches show examples of how the Baselift system can be mounted on a plate. The distances mentioned on the sketches are to be seen as guidelines. As a rule of thumb, the distance between 2 Baselifts must never be more than 600 mm.

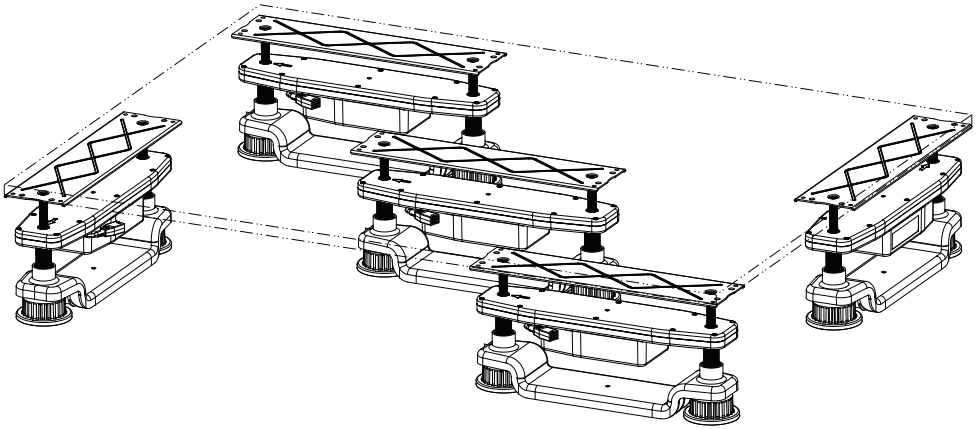
Please observe that the Baselift is not designed to obtain any bending moment for which reason it is important that the number of Baselifts is equivalent to the size of the kitchen application.



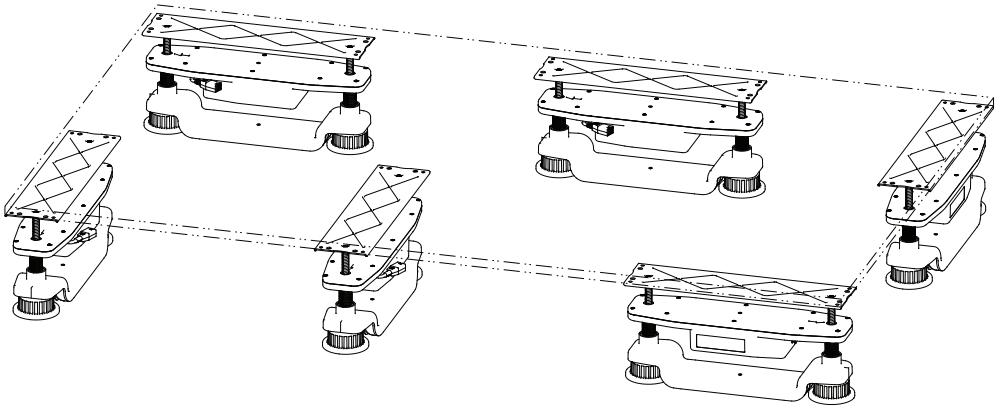
The arrows on the above drawing show the maximum distance of 600 mm



Example of how to mount a Baselift system with 4 units



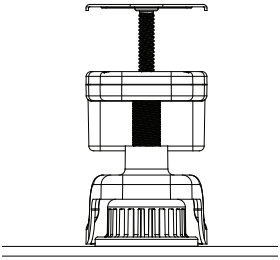
Example of how to mount a Baselift system with 5 units



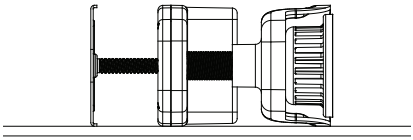
Example of how to mount a Baselift system with 6 units.

Things to observe:

The Baselift must only be mounted standing, not on the side



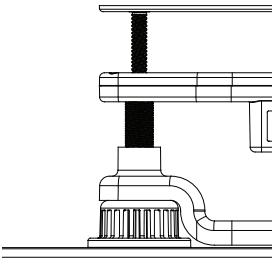
Correct mounting



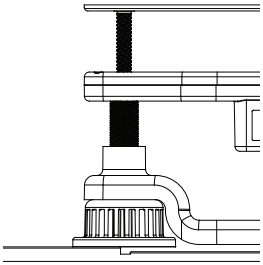
Wrong mounting

Uneven floor

If the floor is uneven, it is very important that the bottom part of the Baselift does not touch the floor. – Only the feet (adjustable) must have contact with the floor, there must be free space underneath the Baselift



Correct mounting



Wrong mounting

Sound level
The sound level of the Baselift system depends on how the Baselifts are mounted. The type of flooring has an influence on how the sound is spread and the sound will also change when the Baselifts are mounted on the plate where cupboards are mounted on top.

Be aware that the Baselift system may only be used in push applications.

The base cover must be mounted prior to use to avoid any collision situations or squeezing.

If a wireless system is used, please remember to place the RFT box an accessible place at it contains batteries which can be replaced.

Accessories and repair

Ordering accessories
Order from your nearest LINAK® dealer or subsidiary.

Accessories
Please contact your nearest LINAK dealer for information.

Repairs
Systems should only be repaired by an authorised LINAK service centre or engineer. Systems to be repaired under warranty must be sent to an authorised LINAK service centre.

Warning!
By unauthorised opening of the system there is a risk that it may malfunction at a later date.

Spare parts
Please contact your nearest LINAK dealer for information on spare parts.

Disposal of LINAK products

As LINAK customers often ask us how our products can be disposed of or scrapped, we have prepared this guidance that enables a classification to different waste fractions for recycling or combustion.

Guidance

We recommend that our products be disassembled as much as possible and divided into different waste groups for recycling or combustion.
For example, waste can be sorted into metals, plastics, cable scrap, combustible materials and recoverable resources.

Some of these main groups can be further divided into subgroups; e.g. metal can be divided into steel/ aluminium/copper and plastic can be divided into ABS/PA/PE/PP.

As an example, the table below breaks down the different components in LINAK products to various recycling groups:

Product	Components	Recycling group
Column/ Actuator :	Spindle and motor Plastic housing Cable PC boards	Metal scrap Plastic recycling or combustion Cable scrap or combustion Electronics scrap
Control Box :	PC boards Plastic housing Cable Transformer	Electronics scrap Plastic recycling or combustion Cable scrap or combustion Metal scrap
Handset/Control :	Plastic housing Cable PC boards	Plastic recycling or combustion Cable scrap or combustion Electronics scrap

By now, almost all our casted plastic parts are supplied with an interior code for plastic types and fibre contents, if any.

Main groups of disposal

Product main groups	Metal scrap	Cable scrap	Electronics scrap	Plastic recycling or combustin	Comments
Baselift unit	X	X	X	X	
CBD6S (SMPS)			X	X	
DPXX		X	X	X	

Disposal of batteries

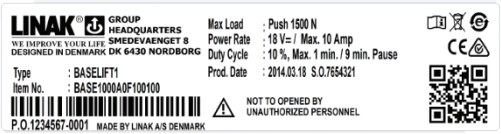
Details regarding safe disposal of used and leaking batteries:
Batteries should be disposed in accordance with appropriate federal, state and local regulations. LINAK recommends that used or leaking batteries are disposed through local recycling systems. Please do not throw used or leaking batteries in normal household waste or in nature. This will cause damage to the enviroment.

How to deal with leaking batteries

Leaking batteries should be disposed as described above.
If leaking batteries are discovered in the product, the batteries must be removed at once to minimise damage to the product. If leaking batteries are left in the product, it might become defective.
It is recommended to use plastic gloves when handling leaking batteries. The contents of leaking batteries can cause chemical burns and respiratory irritation.
If exposed to the contents of a leaking battery, please wash with soap and water. If irritation persists, please seek medical attention. In case of eye contact, please flush eyes thoroughly with water for 15 minutes and seek medical attention."

Labels

Label for Baselift


LINAK
GROUP HEADQUARTERS
SMEDEVAENGET 8
DK 6430 NORDBORG
WE IMPROVE YOUR LIFE
DESIGNED IN DENMARK
Max Load : Push 1500 N
Power Rate : 18 V⎓ / Max. 10 Amp
Duty Cycle : 10 %, Max. 1 min. / 9 min. Pause
Prod. Date : 2014.03.18 S.O.7654321
Type : BASELIFT1
Item No. : BASE1000A0F100100
NOT TO OPENED BY UNAUTHORIZED PERSONNEL
P.O.1234567-0001 MADE BY LINAK A/S DENMARK

Label for CBD6S 200W (SMPS)

Label for CBD6S 300W (SMPS)
up to 4 channels

LINAK
GROUP HEADQUARTERS
SMEDEVAENGET 8
DK 6430 NORDBORG
WE IMPROVE YOUR LIFE
DESIGNED IN DENMARK
Item : CBD6SP00020A-709
Date : 2014.02.07
U In : 90 V - 240 V ~, 48 Hz - 63 HZ
P In : 450 W
U Out: 12 V⎓ - 40 V⎓
Op. : Int. 10%, Max. 2 min./18 min.
S.W. P/N.: 03002000 Ver. XXX
NOT TO BE OPENED BY UNAUTHORIZED PERSONNEL
P.O.-0000
Assembled in China 01

LINAK APPLICATION POLICY

The purpose of the application policy is to define areas of responsibilities in relation to applying a LINAK product defined as hardware, software, technical advice, etc. related to an existing or a new customer application.

LINAK products as defined above are applicable for a wide range of applications within the Medical, Furniture, Desk and Industry areas. Yet, LINAK cannot know all the conditions under which LINAK products will be installed, used, and operated, as each individual application is unique.

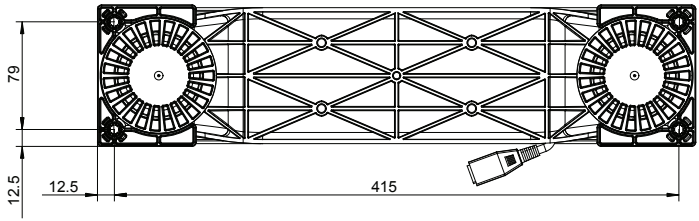
The suitability and functionality of the LINAK product and its performance under varying conditions (application, vibration, load, humidity, temperature, frequency, etc.) can only be verified by testing, and shall ultimately be the responsibility of the LINAK customer using any LINAK product.

LINAK shall be responsible solely that LINAK products comply with the specifications set out by LINAK and it shall be the responsibility of the LINAK customer to ensure that the specific LINAK product can be used for the application in question.

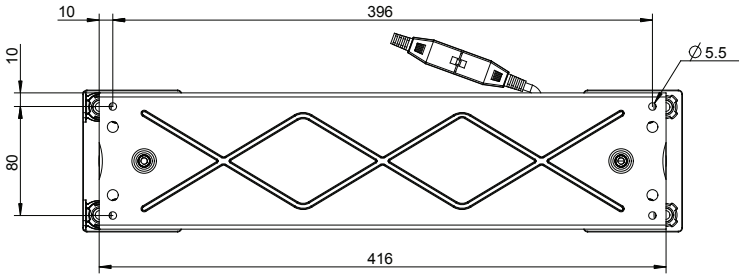
DRAWING APPENDIX

Baselift

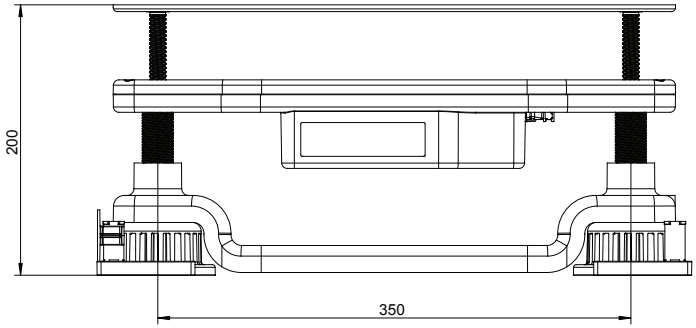
Bottom view

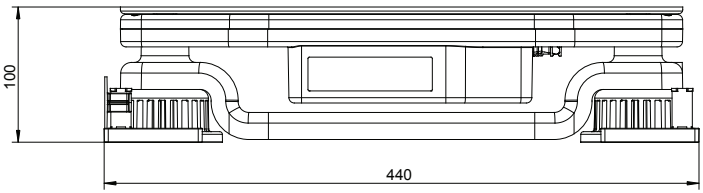


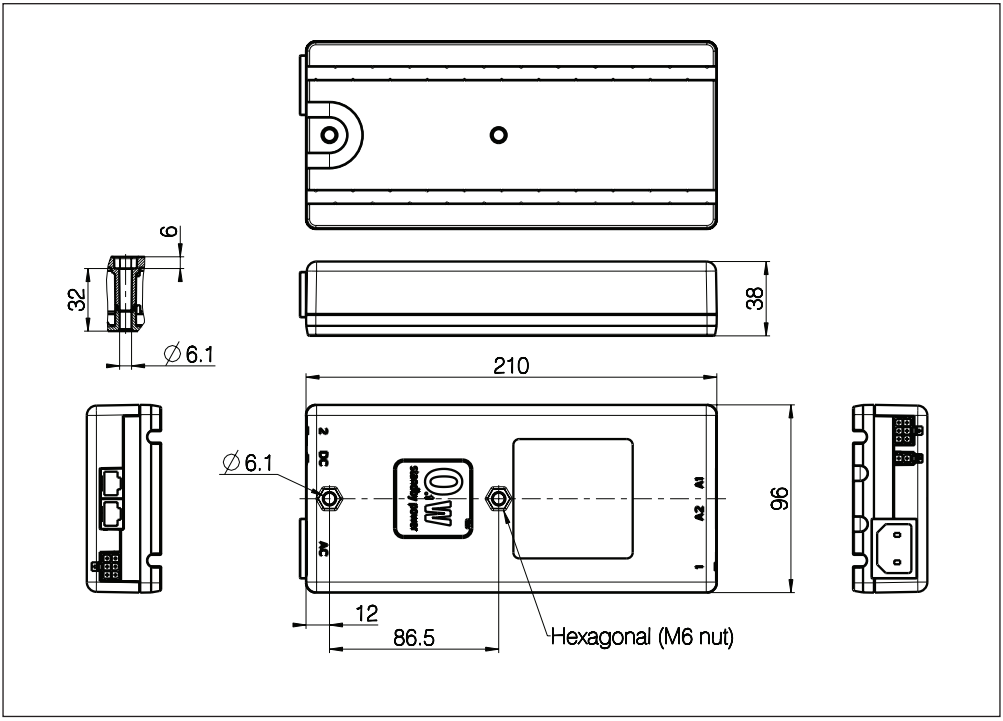
Top view



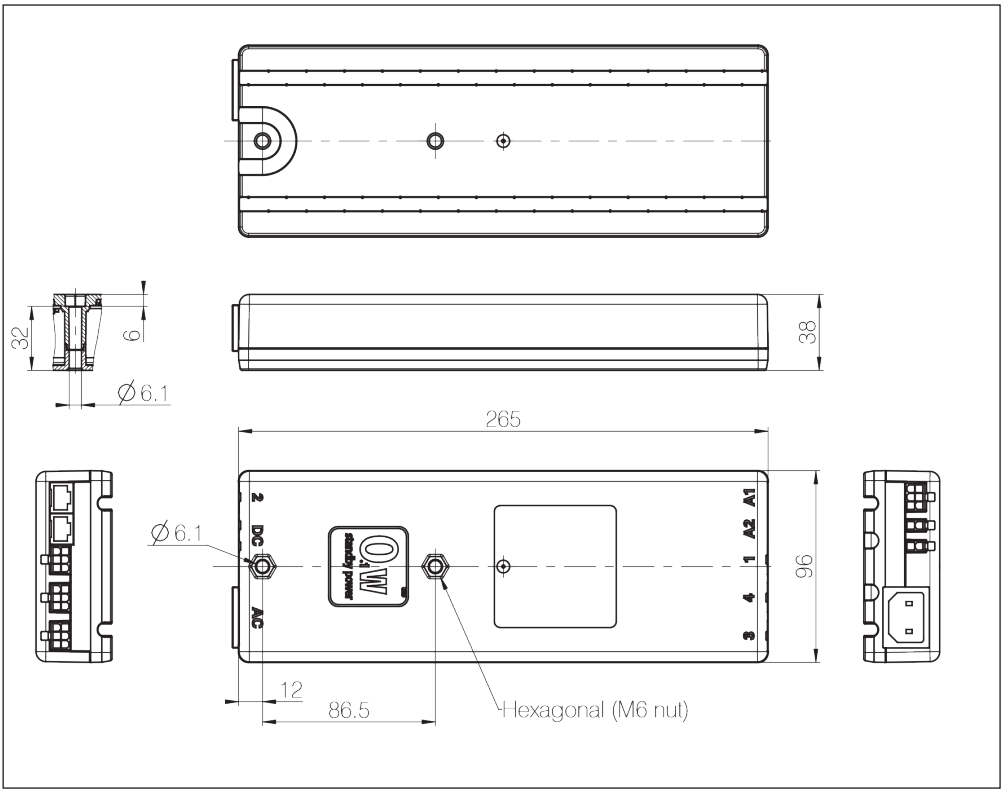
Side view






6
32
∅6.1
38
210
∅6.1
96
12
86.5
Hexagonal (M6 nut)

CBD6S 300W (SMPS) up to 4 channels



DECLARATION OF CONFORMITY

LINAK A/S
Smedevænget 8
DK - 6430 Nordborg

hereby declares that LINAK Actuator System composed of:

Control Box(s)	CBD6S	
And		
Linear Actuator(s)	31xxxH-xxxxx50S, DB4, DB5, DB6, DB7, DB9, DB12, DB14, DB16, LA23	and / or
Lifting Column(s)	DL1A, DL2, DL4, DL5, DL6, DL7, DL8, DL9, DL10, DL11, DL12, DL14, DL15, DL16, DL17, BASE1	
And		
Desk Panel(s)	DP1C, DP1K, DP1L, DP1V, DP1U, DPA, DPB, DPF, DPH, DPT, WDPL1	and / or
Handset(s)	RFT000, RFRL00x, HB1xRF3000, HB2xRFx000	

complies with EMC Directive: 2004/108/EC according to following standards:
EN 61000-6-1:2007, EN 61000-6-3:2007, EN 55014-1:2007+A1+A2, EN 55022:2011 Class B,

complies with Low Voltage Directive 2006/95/EC according to the standard:
EN 60335-1:2012

complies with Machinery Directive 2006/42/EC according to the standard:
EN 13849-1:2008 SRP/CS Cat. B, PL = b and SRESW PL = b

complies with RoHS2 Directive 2011/65/EU according to the standard:
EN 55581:2012

and

RF Controls:	RF-transmitter: HB1xRF3000	and/or
	RF-transmitter: HB2xRFx000	and/or
	RF-receiver: RFT000, RFRL	

complies with the Radio equipment and Telecommunications terminal equipment Directive 1999/5/EC:
EN 300220-2:2007, EN 61000-6-1:2007, EN 61000-6-3:2007,
EN 60335-1:2012, EN 62311:2008

Nordborg, 2014-04-09

LINAK A/S
John Kling, B.Sc.E.E.
Certification and Regulatory Affairs
Authorized to compile the relevant technical documentation

Original Declaration

FACTORIES

CHINA
LINAK (Shenzhen) Actuator Systems, Ltd.
Phone: +86 755 8610 6656
Fax: +86 755 8610 6990
E-mail: sales@linak.cn
www.linak.cn

DENMARK
LINAK A/S - Group Headquarters, Guderup
Phone: +45 73 15 15 15
Fax: +45 74 45 80 48
Fax: +45 73 15 16 13 (Sales)
E-mail: info@linak.com
www.linak.com

SLOVAKIA
LINAK Slovakia s.r.o.
Phone: +421 51 75 63 414
Fax: +421 51 75 63 410
E-mail: jp@linak.sk
www.linak.com

USA
LINAK U.S. Inc. North and South American Headquarters
Phone: +1 502 253 5595
Fax: +1 502 253 5596
E-mail: info@linak-us.com
www.linak-us.com

SUBSIDIARIES

AUSTRALIA
LINAK Australia Pty. Ltd
Phone: +61 3 8796 9777
Fax: +61 3 8796 9778
E-mail: sales@linak.com.au
www.linak.com.au

AUSTRIA
LINAK Repräsentanz Österreich (Wien)
Phone: +43 (1) 890 7446
Fax: +43 (1) 890 744615
E-mail: info@linak.de
www.linak.at

BELGIUM & LUXEMBOURG
LINAK Actuator-Systems NV/SA
Phone: +32 (0)9 230 01 09
Fax: +32 (0)9 230 88 80
E-mail: info@linak.be
www.linak.be

BRAZIL
LINAK Do Brasil Comércio De Atuadores Ltda.
Phone: +55 (11) 2832 – 7070
Fax: +55 (11) 2832 – 7060
E-mail: info@linak.com.br
www.linak.com.br

CANADA
LINAK Canada Inc.
Phone: +1 502 253 5595
Fax: +1 416-255-7720
E-mail: info@linak.ca
www.linak-us.com

CZECH REPUBLIC
LINAK C&S S.R.O.
Phone: +420581741814
Fax: +420581702452
E-mail: ponizil@linak.cz
www.linak.cz

DENMARK
LINAK Danmark A/S
Phone: +45 86 80 36 11
Fax: +45 86 82 90 51
E-mail: linak@linak-silkeborg.dk
www.linak.dk

FINLAND
LINAK OY
Phone: +358 10 841 8700
Fax: +358 10 841 8729
E-mail: linak@linak.fi
www.linak.fi

FRANCE
LINAK France E.U.R.L
Phone: +33 (0) 2 41 36 34 34
Fax: +33 (0) 2 41 36 35 00
E-mail: linak@linak.fr
www.linak.fr

GERMANY
LINAK GmbH
Phone: +49 6043 9655 0
Fax: +49 6043 9655 60
E-mail: info@linak.de
www.linak.de

INDIA
LINAK A/S India Liaison Office
Phone: +91 120 4393335
Fax: +91 120 4273708
E-mail: info@linak.in
www.linak.in

IRELAND
LINAK UK Limited - Ireland
Phone: +44 (0)121 544 2211
Fax: +44 (0)121 544 2552
+44 (0)796 855 1606 (UK Mobile)
+35 387 634 6554 (Republic Of Ireland Mobile)
E-mail: sales@linak.co.uk
www.linak.co.uk

ITALY
LINAK Italia S.r.l.
Phone: +39 02 48 46 33 66
Fax: +39 02 48 46 82 52
E-mail: info@linak.it
www.linak.it

JAPAN
LINAK K.K.
Phone: 81-45-533-0802
Fax: 81-45-533-0803
E-mail: linak@linak.jp
www.linak.jp

MALAYSIA
LINAK Actuators Sdn. Bhd.
Phone: +60 4 210 6500
Fax: +60 4 226 8901
E-mail: info@linak-asia.com
www.linak.my

NETHERLANDS
LINAK Actuator-Systems B.V.
Phone: +31 76 5 42 44 40
Fax: +31 76 5 42 61 10
E-mail: info@linak.nl
www.linak.nl

NEW ZEALAND
LINAK New Zealand Ltd.
Phone: +64 9580 2071
Fax: +64 9580 2072
E-mail: nzsales@linak.com.au
www.linak.co.nz

NORWAY
LINAK Norge AS
Phone: +47 32 82 90 90
Fax: +47 32 82 90 98
E-mail: info@linak.no
www.linak.no

POLAND
LINAK Polska
Phone: +48 (22) 500 28 74
Fax: +48 (22) 500 28 75
E-mail: dkreh@linak.dk
www.linak.pl

REPUBLIC OF KOREA
LINAK Korea Ltd.
Phone: +82-(0)2-6231-1515
Fax: +82-(0)2-6231-1516
E-mail: scully@linak.kr
www.linak.kr

RUSSIAN FEDERATION
000 LINAK
Phone: +7 495 280 14 26
Fax: +7 495 687 14 26
E-mail: info@linak.ru
www.linak.ru

SPAIN
LINAK Actuadores, S.L.u
Phone: +34 93 588 27 77
Fax: +34 93 588 27 85
E-mail: linakact@linak.es
www.linak.es

SWEDEN
LINAK Scandinavia AB
Phone: +46 8 732 20 00
Fax: +46 8 732 20 50
E-mail: info@linak.se
www.linak.se

SWITZERLAND
LINAK AG
Phone: +41 43 388 31 88
Fax: +41 43 388 31 87
E-mail: info@linak.ch
www.linak.ch

TAIWAN
LINAK A/S Taiwan Representative Office
Phone: +886 2 27290068
Fax: +886 2 27290096
Mobile: +886 989292100
E-mail: michael.chen@linak.com.tw
www.linak.com.tw

TURKEY
LINAK İth. İhr. San. ve Tic. A.Ş.
Phone: + 90 312 4726338
Fax: + 90 312 4726635
E-mail: info@linak.com.tr
www.linak.com.tr

UNITED KINGDOM
LINAK UK Limited
Phone: +44 (0)121 544 2211
Fax: +44 (0)121 544 2552
E-mail: sales@linak.co.uk
www.linak.co.uk

DISTRIBUTORS

ARGENTINA
Novotec Argentina SRL
Phone: +[54] (11) 4303-8900
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Fax: +[54] (11) 4032-0184
E-mail: info@novotecargentina.com
www.novotecargentina.com

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COLOMBIA
MEM Ltda
Phone: +[57] (1) 334-7666
Fax: +[57] (1) 282-1684
E-mail: servicioalcliente@memltda.com.co
www.memltda.com.co

INDONESIA
Pt. Himalaya Everest Jaya
Phone: +6 221 544 8956,
+6 221 544 8965
Fax: +6 221 619 4658,
+6 221 619 1925
E-mail: hejplastic-div@centrin.net.id
www.hej.co.id

IRAN
Bod Inc.
Phone: +98 2188998635 - 6
Fax: +98 2188954481
E-mail: info@bod.ir
www.bod.ir

MEXICO
ILSA S.A. de C.V.
Phone: +[52] (55) 5388-3960
Fax: +[52] (55) 5388-3966
E-mail: linak@ilsamexico.com
www.ilsamexico.com

PERU
Percy Martin Del Aguila Ubillus
Phone: +51 99- 883-9879

RUSSIAN FEDERATION
000 FAM
Phone: +7 812 3319333
Fax: +7 812 3271454
E-mail: purchase@fam-drive.ru
www.fam-drive.ru

SINGAPORE
Servo Dynamics Pte. Ltd.
Phone: +65 6844 0288
Fax: +65 6844 0070
E-mail: servodynamics@servo.com.sg
www.servo.com.sg

SOUTH AFRICA
Industrial Specialised Applications CC
Phone: +27 11 312 2292 or
+27 11 2077600 (Switch Board)
Fax: +27 11 315 6999
E-mail: gartht@isagroup.co.za
www.isaza.co.za

UNITED ARAB EMIRATES
Mechatronics
Phone: +971 4 267 4311
Fax: +971 4 267 4312
E-mail: mechtron@emirates.net.ae
www.mechatronics.ae

For contact details on other countries please visit *www.linak.com* or contact:

LINAK INTERNATIONAL
Phone: +45 73 15 15 15
Fax: +45 74 45 90 10
Fax: +45 73 15 16 13 (Sales)
E-mail: info@linak.com
www.linak.com

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